

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:
Mark D. Purgett, David C. May, Mark D. Zender, Daniel
J. Willie and Thomas R. Borden

Serial No.:
Filed: October 27, 2000
For: LIQUID PAVEMENT MARKING
COMPOSITIONS

Group Art Unit:

Examiner:

3/b
D.C.
2-801

Assistant Commissioner for Patents
Washington D.C. 20231

PRELIMINARY AMENDMENT

Dear Sir:

On p. 1, line 6 please amend the specification as follows:

This application is a continuation of U.S. Patent Application 09/096,923 filed June 12, 1998 that claims the benefit of U.S. Provisional Application No. 60/049,572, filed June 13, 1997.

Please cancel claims 1-36 and add claims 37-46 as follows:

- 1 37. A pavement marking comprising:
a binder having polyurea groups, wherein the binder is prepared from a coating composition comprising:
one or more aliphatic secondary amines;
one or more polyisocyanates;
material selected from the group consisting of fillers, extenders, pigments, and combinations thereof; and
reflective elements;

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Date:

October 27, 2000

Signature

Colleen M. Wagner
Colleen M. Wagner

wherein the coating composition has a minimum application temperature of at least about 7°C.

2238. A pavement marking comprising:
a binder having polyurea groups, wherein the binder is prepared from a coating composition comprising:
one or more aliphatic secondary amines;
one or more polyisocyanates;
material selected from the group consisting of fillers, extenders, pigments, and combinations thereof; and
reflective elements;
wherein the coating composition has a track time of no greater than about 5 minutes.

3 336. A pavement marking comprising:
a binder having polyurea groups, wherein the binder is prepared from a coating composition comprising:
one or more aliphatic secondary amines;
one or more polyisocyanates;
material selected from the group consisting of fillers, extenders, pigments, and combinations thereof; and
reflective elements;

wherein the pavement marking has an open time of at least 30 seconds and a retained reflectivity of at least 100 mcd/m²/lux after at least 2 years in use as longitudinal traffic markings as measured according to ASTM E 1710-95.

4 446. A pavement marking comprising:
a binder having polyurea groups, wherein the binder is prepared from a coating composition comprising:
one or more aliphatic secondary amines;
one or more polyisocyanates;
material selected from the group consisting of fillers, extenders, pigments, and combinations thereof; and

reflective elements;

wherein the coating has an open time of at least 30 seconds and a minimum application temperature of at least about 7°C.

5-5
B1, cont, sub, C2
41. A pavement marking comprising:

a binder having polyurea groups, wherein the binder is prepared from a coating composition comprising:

one or more aliphatic secondary amines;

one or more polyisocyanates;

material selected from the group consisting of fillers, extenders, pigments, and combinations thereof; and

reflective elements;

wherein the coating has an open time of at least 30 seconds and a track time of no greater than about 5 minutes.

6 6
42. A pavement marking comprising:

a binder having polyurea groups, wherein the binder is prepared from a coating composition comprising:

one or more aliphatic secondary amines;

one or more polyisocyanates;

material selected from the group consisting of fillers, extenders, pigments, and combinations thereof; and

reflective elements;

wherein the coating has a minimum application temperature of at least about 7°C and a retained reflectivity of at least 100 mcd/m²/lux after at least 2 years in use as longitudinal traffic markings as measured according to ASTM E 1710-95.

7 7
43. A pavement marking comprising:

a binder having polyurea groups, wherein the binder is prepared from a coating composition comprising:

one or more aliphatic secondary amines;

one or more polyisocyanates;

Sub C3 cont.
B1 cont.
8 8 44.
material selected from the group consisting of fillers, extenders, pigments, and combinations thereof; and reflective elements;

wherein the coating has a track time of no greater than about 5 minutes and a retained reflectivity of at least 100 mcd/m²/lux after at least 2 years in use as longitudinal traffic markings as measured according to ASTM E 1710-95.

44. A pavement marking comprising:

a binder having polyurea groups, wherein the binder is prepared from a coating composition comprising:

one or more aliphatic secondary amines comprising an aspartic ester amine;

one or more polyisocyanates;

material selected from the group consisting of fillers, extenders, pigments, and combinations thereof; and

reflective elements;

wherein a retained reflectivity of at least 100 mcd/m²/lux after at least 2 years in use as longitudinal traffic markings as measured according to ASTM E 1710-95.

9 45.
A pavement marking comprising:

a binder having polyurea groups, wherein the binder is prepared from a coating composition comprising

one or more aliphatic secondary amines comprising an aspartic ester amine;

one or more polyisocyanates;

material selected from the group consisting of fillers, extenders, pigments, and combinations thereof; and

reflective elements;

wherein the coating has a minimum application temperature of at least about 7°C.

10 46.
Sub C4
A pavement marking comprising:

a binder having polyurea groups, wherein the binder is prepared from a coating composition comprising

one or more aliphatic secondary amines comprising an aspartic ester amine;

Respectfully submitted,